

CATALYST FOR TRIMERIZING ETHYLENE AND TRIMERIZATION OF ETHYLENE IN PRESENCE OF THE SAME

Patent number: JP11092407
Publication date: 1999-04-06
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Classification:
- international: C07C11/113; B01J31/20; C07B61/00; C07C2/08;
C07C2/16; C07C2/26
- european:
Application number: JP19970255369 19970919
Priority number(s):

Abstract of JP11092407

PROBLEM TO BE SOLVED: To obtain the subject catalyst for efficiently and highly selectively producing 1-hexene useful as a raw material comonomer for linear low density polyethylene from ethylene by including a chromium compound, an alkyl metal compound and a specific sulfur compound.

SOLUTION: This catalyst comprises a chromium compound of the formula: $\text{CrAm} \{(\text{m}) \text{ is an integer of } 1-6; \text{A is carbon monoxide or the like}\}$, an alkyl compound of the formula: $\text{R}_p \text{MX}_q \{0 < (p) \leq 3, 0 \leq (q) < 3, (p)+(q) \text{ is } 1 \text{ to } 3; \text{M is lithium or the like; R is a } 1-10\text{C alkyl; X is H or the like}\}$, and a sulfur compound of the formula: $\text{R} < 1 > -(\text{Y})_h - [\text{R} < 2 > -(\text{Y})]_k - \text{R} < 3 > \{(\text{h}), (\text{i}) \text{ are each an integer of } 1-8; (\text{k}) \text{ is an integer of } 0-10; \text{R} < 1 >, \text{R} < 3 > \text{ are each H or the like; R} < 2 > \text{ is a } 1-8\text{C alkylene; Y is a group expressed by the formula} \}$ or the formula: $\text{R} < 4 > -\text{S}-\text{M} \{(\text{R} < 4 > \text{ is a } 1-20\text{C hydrocarbon; M is a } 2, 11, 12, 13 \text{ or } 14 \text{ group metal element in the periodic table})\}$.

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